IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor:	SCHARDT, CRAIG R.		
Application No.:	10/608930	Group Art Unit:	Unknown
Filed:	June 27, 2003	Examiner:	Unknown
Title:	SILICATE GLASS FOR UPCONVERSION FLUORESCENCE		

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING
I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:
9-11-03 (Date)
Signed by: Tom Sanders

Dear Sir:

Pursuant to 37 CFR §§ 1.56, 1.97, and 1.98, enclosed is a completed Form PTO-1449, citing references submitted for consideration by the Examiner. A copy of each cited reference is also enclosed. It is respectfully requested that the Examiner initial and return the enclosed Form PTO-1449 to indicate that each reference has been considered.

It is believed that no fee is due; however, in the event a fee is required, please charge the fee to Deposit Account No. 13-3723.

Respectfully submitted,

September 11, 2003
Date

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Office of Intellectual Property Counsel
3M Innovative Properties Company
Facsimile No.: 651-736-3833

Substitute for form 1449A/PTO (modified)		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	**Application Number**	**10/608930**
	Filing Date	**June 27, 2003**
	First Named Inventor	**Craig R. Schardt**
(Use as many sheets if necessary)	Art Unit	Unknown
Page 2 of 2	Examiner Name	Unknown
	Attorney Case Number	57211US005

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS		
Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	C5	J.R. LINCOLN, et al; "Time Resolved and Site Selective Spectroscopy of Thulium Doped Into Germano- and Alumino-Silicate Optical Fibres and Preforms", *Journal of Luminescence* (1991); Vol. 50; pp. 297-308
	C6	"Lucent Technologies announces two new erbium-doped fibers for the extended L-band the C-band"; Lucent Technologies [online]; [available on the internet October 1, 2001]; [retrieved from the internet January 23, 2003 at www.lucent.com/press/1001/011001.nsf.html]
	C7	D.N. MESSIAS, et al; "Blue Energy Upconversion Emission in Thulium-Doped SiO_2-P_2O_5 Channel Waveguides Excited at 1.064 μm", *IEEE Journal of Quantum Electronics* (Dec. 2002); Vol. 38, No. 12; pp. 1647-1650
	C8	A. MORI, et al; "1.5 μm Broadband Amplification by Tellurite-Based EDFAs"; *Conference on Optical Fiber Communications, Technical Digest, Postconference Ed.* OSA Technical Digest Series (1997); Vol. 6; pp. 371-374; Optical Society of America
	C9	R.L. SHUBOCHKIN, et al; "Er^{3+} - Tm^{3+} Co-doped Silica Fiber Laser"; *OSA TOPS* (1999); Vol. 26 Advanced Solid-State Lasers; pp. 167-171; Optical Society of America
	C10	A.P. OTTO, et al, "Red to Blue Upconversion in Tm-Doped Sol-Gel Silicate Glasses"; *Journal of Non-Crystalline Solids* (2000); Vol. 265; pp. 176-180
	C11	S. TANABE & E. SNITZER, "Blue Upconversion Characteristics of Thulium-Doped Silica Fiber with High Germania Content"; *Japan Journal of Applied Physics* (1998); Vol. 37, Suppl., 37-1; pp. 81-83
	C12	M.V.D. VERMELHO, et al; "Efficient and Thermally Enhanced Frequency Upconversion in Yb^{3+}-Sensitized Tm^{3+}-Doped Silica-on-Silicon Buried Waveguides Excited at 1.064 μm"; *Optical Materials* (2001); Vol. 17; pp. 419-423
	C13	X. ZOU, et al; "Mechanisms of Upconversion Fluorescences in Er^{3+}, Tm^{3+} Codoped Fluorozircoaluminate Glasses"; *Journal of Non-Crystalline Solids* (1995); Vol. 181; pp. 100-109

*Examiner:	Date Considered:
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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U.S. Patent Documents

Exam. Init.*	Cite No.	Document Number Number-Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	US- 5,388,110	02-07-1995	Snitzer	
	A2	US- 5,426,656	06-20-1995	Tohmon et al	
	A3	US- 6,154,598	11-28-2000	Gavrilovic et al	
	A4	US- 6,463,201 B2	10-08-2002	Aiso et al	
	A5	US- 2002/0021882 A1	02-21-2002	Wyatt et al	
	A6	US- 2002/0064366 A1	05-30-2002	Cole et al	
	A7	US-			
	A8	US-			

Foreign Patent Documents

Exam. Init.*	Cite No.	Foreign Patent Document Ctry. Code	 Number-KindCode (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
	B1	JP	04-349141	12-03-1992			X
	B2	JP	07-058399	03-03-1995			X
	B3	JP	2001-210898	08-03-2001			X
	B4	KR	2000-0027961	05-15-2000			X
	B5	WO	00/55101	09-21-2000			
	B6	WO	03/002475 A1	01-09-2003			
	B7						

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	C1	J.R. BONAR, et al; "Blue Light Emission in Thulium Doped Silica-on-Silicon Waveguides", *Optics Communications* (1 Sept. 1997); Vol. 141, pp. 137-140
	C2	A.F. EL-SHERIF & T.A. KING; "Dynamics and Self-Pulsing Effects in Tm^{3+}-Doped Silica Fibre Lasers", *Optics Communications* (15 July 2002); Vol. 208; pp. 381-389
	C3	D.C. HANNA, et al; "Frequency Upconversion in Tm- and Yb : Tm-Doped Silica Fibers", *Optics Communications* (15 Aug. 1990); Vol. 78, No. 2; pp. 187-194
	C4	H. JEONG & K. OH; "Characterization of Amplified Spontaneous Emission Light Source from an Er^{3+}/Tm^{3+} Co-doped Silica Fiber"; *Conference on Lasers and Electro-Optics, Technical Digest, Postconference Ed.* (May 7-12, 2000);TOPS Vol. 39; pp. 544-545; Optical Society of America

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